

1. A method of internetworking a mobile station to operate in a wireless wide area network (WWAN), comprising:

provisioning a switch to communicate with the WLAN via IP communication and to communicate with a PBX via a PBX interface;

the switch receiving mobile station communications via the WLAN;

the switch converting said mobile station communications to a format compatible with the PBX interface and forwarding the converted communications to the PBX;

the PBX receiving and handling the converted communications.

2. The method of claim 1 wherein the switch is further provisioned to communicate with a WWAN and wherein the switch analyzes the mobile station communications and determines that the communications address an entity external to a domain of the PBX and in response thereto

the switch requesting a TLDN from a MSC serving the WWAN;

in response to receiving a TLDN from the MSC, the switch sending a message to the PBX to connect the mobile station call to the specified TLDN;

the PBX connecting the mobile station call to the specified TLDN.

3. The method of claim 2 further including

the mobile station roaming during the call,

the mobile station switching to an WWAN air interface protocol;

the mobile station reconnecting to the call by specifying the TLDN of the call.

4. The method of claim 3 wherein the mobile station automatically reconnects to the call without user intervention.

5. The method of claim 3 wherein the PBX tears down call connections to the MSC when the mobile station is detected as having lost communication with the switch.

6. The method of claim 3 wherein the PBX maintains call connections to the MSC when the mobile station is detected as having lost communication with the switch.

7. The method of claim 2 further including

the mobile station roaming during the call,

the mobile station determining that it should communicate according to a WWAN air interface protocol while the mobile station is participating in a call under a WLAN air interface protocol and in response thereto

sending a message to a source MSC that is servicing the WLAN that a handoff is desired;

the source MSC analyzing the message, establishing an anchor MSC, and establishing communication channels with a target MSC servicing a geographic WWAN area in which the mobile station resides;

the mobile station beginning communication with the WWAN and the target MSC relaying those communication to the anchor MSC.

RECEIVED

8. The method of claim 7 wherein the mobile station informs the MSC serving the WLAN of the cell ids of the WWAN geographic area, and wherein the source MSC uses the cell ids information to establish communication channels with the target MSC.

1005084 0110